

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
WATER QUALITY ADVISORY COMMITTEE MEETING

Monday, March 6, 2006
MAG Office Building
Phoenix, Arizona

MEMBERS ATTENDING

Roger Klingler, Scottsdale, Chair
Avondale: Greg Stack
Buckeye: Lucky Roberts
#Chandler: Jacqueline Strong
El Mirage: Michael Salisbury
Gilbert: Lonnie Frost
Glendale: Russell Fletcher for Chris Ochs
*Goodyear: David Iwanski
#Mesa: Bill Haney
#Peoria: William Mattingly for Stephen Bontrager

Phoenix: Robert Hollander
#Surprise: Rich Williams Sr.
Tempe: David McNeil
Maricopa County: Ken James for John Power
*Pinnacle West Capital: John Boyer
*Salt River Project: Ray Hedrick
*U of A Cooperative Extension: Patrick Clay
Citizen Representative: Eugene Jensen

*Those members neither present nor represented by proxy.
#Attended by telephone conference call.

OTHERS PRESENT

CMX: Kevin Kammerzell
Element Homes: Mike Cronin
Lennar Communities: Paul Haggerty
Litchfield Park Service Company: Joel Wade
Pulte Homes: Josh Hartmann

Wood Patel: Jerry Copeland
Maricopa Association of Governments:
Julie Hoffman
Maricopa Association of Governments: Ann Wimmer

1. Call to Order

A meeting of the MAG Water Quality Advisory Committee was conducted on Monday, March 6, 2006. Roger Klingler, City of Scottsdale, Chair, called the meeting to order at 4:00 p.m. Jacqueline Strong, City of Chandler, Bill Haney, City of Mesa, Rich Williams, City of Surprise, and William Mattingly, City of Peoria, attended the meeting via telephone conference call.

2. Agenda Announcements

Chair Klingler provided an opportunity for member agencies to report on activities of interest in their agencies.

3. Call to the Audience

Chair Klingler provided an opportunity for members of the public to address the Committee on items not scheduled on the agenda that fall under the jurisdiction of MAG or items on the agenda for discussion but not for action. No members of the public indicated that they wished to address the Committee.

4. Approval of the February 7, 2006 Meeting Minutes

The Committee reviewed the draft minutes from the February 7, 2006 meeting. Robert Hollander, City of Phoenix, moved and Lucky Roberts, Town of Buckeye, seconded, and the motion to approve the February 7, 2006 meeting minutes carried unanimously.

5. Draft MAG 208 Water Quality Management Plan Amendment for the Service Area Expansion of the Litchfield Park Service Company Palm Valley and Sarival Water Reclamation Facilities

Jerry Copeland, Wood Patel, gave a overview of the Draft MAG 208 Water Quality Management Plan Amendment for the Service Area Expansion of the Litchfield Park Service Company (LPSCo) Palm Valley and Sarival Water Reclamation Facilities. The Town of Buckeye, City of Glendale, and Maricopa County have expressed interest in the provision of sewer service by the LPSCo Palm Valley and Sarival Water Reclamation Facilities located in the Goodyear Municipal Planning Area to developments within their planning areas. The facilities are identified in the current MAG 208 Plan with reserve capacity to accommodate the sewer service needs of these developments.

Mr. Copeland stated that Russell Ranch Units 1-5 are being served by the Arizona American Water Company Russell Ranch Wastewater Treatment Plant. He added that as part of the Maricopa County Letter of No Objection, it was suggested and has been accepted that the Arizona American Water Company and LPSCo will do everything possible within their corporate structure rules and regulations to eliminate the Russell Ranch Wastewater Treatment Plant and have the Russell Ranch Units 1-5 be served by LPSCo. He added that it is not known at this time if it is possible or desirable for the corporate entities, but it is an objective that LPSCo has agreed to pursue.

Chair Klingler inquired about including the additional service area and asked if LPSCo has notified the Arizona Corporation Commission. Mr. Copeland responded that an application has been made to the Arizona Corporation Commission to include the additional service area and a hearing has been scheduled.

Chair Klingler asked if everything other than what is included in this amendment will be handled by the municipalities. Mr. Copeland responded that the Russell Ranch Units 1-5 are not included in this 208 amendment. However, the capacity of the Regional Sanitary Sewer has been sized to serve the area. The Regional Sanitary Sewer has been sized to also include the hatched areas on the figure. These areas have not been included in this amendment because they are not ready for development. Mr. Copeland stated that the construction of this interceptor sewer would provide a regional solution for all of the properties involved. He indicated that the developments not included at this time will likely bring forward a 208 amendment in the future. Chair Klingler asked why these

developments are not being included in the current 208 amendment. Mr. Copeland responded that the areas are not ready to be developed and are not willing to participate at this point.

Chair Klingler inquired about the size of the interceptor. Joel Wade, Litchfield Park Service Company, responded that the interceptor is 24 inches and includes an increase to 36 inches right before the Sarival Lift Station.

Ken James, Maricopa County, commented that Maricopa County noticed during its review that the proposed pipeline goes very close to the Russell Ranch Wastewater Treatment Plant and also recalled the understanding that eventually this plant would connect to a regional facility once available, and this is that opportunity. He added that during the review, Maricopa County contacted representatives from the Arizona American Water Company and they welcomed the opportunity to meet with LPSCo to discuss the absorption of their service area into the LPSCo service area. Chair Klingler asked if any details have been finalized. Mr. Copeland replied that LPSCo has agreed to pursue the option of servicing the Russell Ranch Units 1-5. Mr. Wade stated the LPSCo has been in communication with the Arizona American Water Company.

Chair Klingler inquired about the capacity of the Palm Valley Water Reclamation Facility. Mr. Copeland responded that the facility is currently at 4.1 million gallons per day (mgd) and it is to be expanded to 8.2 mgd. The Sarival Water Reclamation Facility will be constructed at 4.1 mgd and expanded to 8.2 mgd for a total of 16.4 mgd for the two plants. Chair Klingler asked if there is enough reserve capacity in the two plants to accommodate the sewer service needs of these developments. Mr. Copeland responded yes.

Russell Fletcher, City of Glendale, inquired if the Palm Valley and Sarival Water Reclamation Facilities have Arizona Pollutant Discharge Elimination System (AZPDES)/National Pollutant Discharge Elimination System (NPDES) Permit discharges. Mr. Wade responded that there are currently no AZPDES/NPDES Permits; however, LPSCo is planning to pursue a discharge permit in the future for the Palm Valley Water Reclamation Facility. Mr. Fletcher asked if this amendment provides for the AZPDES/NPDES Permit discharge. Mr. Wade replied it is a future goal.

Greg Stack, City of Avondale, inquired about the total capacity of the 24 inch line. Mr. Wade responded that the full line capacity would be 8.2 mgd.

Chair Klingler requested a motion to authorize that a public hearing be conducted on the Draft MAG 208 Water Quality Management Plan Amendment for the Service Area Expansion of the Litchfield Park Service Company Palm Valley and Sarival Water Reclamation Facilities. David McNeil, City of Tempe, moved and Lonnie Frost, Town of Gilbert, seconded and it was unanimously passed through a roll call vote by the Committee.

6. Draft MAG 208 Water Quality Management Plan Amendment for the Town of Buckeye Anthem at Sun Valley South and Tartesso East Water Reclamation Facilities

Kevin Kammerzell, CMX, gave a briefing on the Draft MAG 208 Water Quality Management Plan Amendment for the Town of Buckeye Anthem at Sun Valley South and Tartesso East Water Reclamation Facilities. He began with an overview of the Anthem at Sun Valley South facility. He indicated that Pulte Home Corporation would finance, the design, build, and start up operation and

maintenance of the Anthem at Sun Valley South facility and ownership would be transferred to the Town of Buckeye.

Mr. Kammerzell stated that there are no private utilities and/or sanitary districts serving the area of the proposed Anthem at Sun Valley South Water Reclamation Facility. He also discussed the population and flow projections for the facility. At build-out in 2025, the service area is anticipated to generate an average day flow of 4.5 mgd.

Mr. Kammerzell mentioned the phasing and site selection for the Anthem at Sun Valley South facility. Effluent would be reused for a combination of turf and open space irrigation and/or groundwater recharge. Effluent would also be disposed of through an AZPDES Permit discharge to an unnamed wash tributary to the White Tanks Wash. Flow from the White Tanks Wash would be retained in the Flood Retardant Structure (FRS) No. 1. Beyond the 100-year storm event, flow would be discharged from the FRS No. 1 into the Hassayampa River.

Mr. Kammerzell discussed the Anthem at Sun Valley South facility treatment technology and permitting and other requirements. He mentioned the ADEQ Class A+ Water Quality Standards and provided an anticipated project schedule for the Anthem at Sun Valley South Water Reclamation Facility.

Mr. Kammerzell discussed the Tartesso East Water Reclamation Facility. He indicated that financing for the facility would be provided by Stardust Communities for the design, build, and start up operation and maintenance, and ownership would be transferred to the Town of Buckeye. Mr. Kammerzell mentioned that there are no private utilities and/or sanitary districts that serve the area of the proposed Tartesso East Water Reclamation Facility. He noted that limited portions of the project area are included within private water company service areas, but no sewer service provider is documented.

Mr. Kammerzell mentioned the population and flow projections for the Tartesso East service area and indicated that it would generate approximately 9.6 mgd of flow at ultimate build-out in 2025-2030. He discussed the phasing and site selection for the Tartesso East Water Reclamation Facility. Effluent would be reused for recharge, possible golf courses, and/or lakes. Effluent would also be disposed of through an AZPDES Permit discharge to an unnamed wash. Flow from the wash would be retained in the FRS No. 1. Beyond the 100-year storm event flow would be discharged from the FRS No. 1 into the Hassayampa River.

Mr. Kammerzell mentioned the Tartesso East facility treatment technology and permitting and other requirements. He also reviewed the ADEQ Class A+ Water Quality Standards and provided an anticipated project schedule for the Tartesso East Water Reclamation Facility.

Chair Klingler inquired about the AZPDES Permit discharge for the Anthem at Sun Valley South facility. Mr. Kammerzell responded that the large mass shown on the figure in the amendment is part of an alluvial fan discharge which does not have a name. He indicated that it is collected by FRS No. 1 and then the ultimate discharge is to the Hassayampa River. Chair Klingler inquired about development in the alluvial fan and asked if drainage would be handled through the development process. Mr. Kammerzell responded that is correct. Chair Klingler asked if it would be channelized. Mr. Kammerzell responded that the main restrictions are 404 wash corridors and

maintaining distance from that. The design process Tartesso is seeking is to approach the limits of wash corridors, but not necessarily channelize, so there would be flood protection for the facility and the homes in the area.

Chair Klingler referred to the permits required and asked if Maricopa County has seen the plans for the facilities. Mr. James responded that Maricopa County would not expect to see the design until the MAG 208 Process is completed.

Eugene Jensen, Citizen, asked if the Flood Control District has any thoughts on the emergency discharges. Mr. Kammerzell replied that the Flood Control District has not indicated any questions.

Mr. Stack commented on the wastewater service area for the Town of Buckeye and asked why the Anthem at Sun Valley South and Tartesso East Water Reclamation Facilities could not be made into one facility. He mentioned that there may be a dozen or so wastewater treatment plants that the Town of Buckeye will have to work with in the future. Mr. Kammerzell responded that the developments are moving forward under two separate ownerships, but are moving through the 208 process together so that the 208 Amendment makes sense to all. He added that discussions occurred with the Town of Buckeye to determine the best way to service the area, and it seems the most reasonable solution is to have both of these projects move forward on their time schedule and also with the ability of the Town of Buckeye to operate these facilities.

Mr. Stack asked if there is some type of impediment that does not allow the two facilities to be made into one facility. Mr. Kammerzell responded that the major consequence to combining the two facilities would be the depth of the sewer and the gravity that we would fight to get over to Tartesso East or a lift station to come back from the Tartesso East facility.

Chair Klingler asked if the parties involved are talking with the Town of Buckeye about the facilities and the best locations. Ms. Roberts responded that the Town of Buckeye is working to get the best locations and Maricopa County has commented that the Town of Buckeye put a footprint at the Tartesso East facility so if the Anthem at Sun Valley South facility would go away then the Tartesso East facility would be able to take the flow. Mr. James added that the developer of the Tartesso East facility would be willing to set aside 28.5 additional acres in case it would become a regional facility. In which case, he assumes the Anthem at Sun Valley South facility would be a scalping plant to serve the reclaimed water needs for the northern areas. This would be the an option for the Town of Buckeye.

Chair Klingler commented on the number of wastewater treatment plants proposed for the Town of Buckeye and asked about the ultimate goal. Ms. Roberts responded that the Town Directors have discussed regional plants. The plan would likely be to have two facilities north of I-10 and 2 or 3 south of I-10 near the Palo Verde area.

Mr. Hollander expressed concern on the number of plants proposed for the Town of Buckeye and indicated that there might be at the point of saturation for the Town's resources and general resources to service the facilities. He asked if the Town has a general plan to address that and to consolidate in the future. Ms. Roberts responded that there has been discussion about consolidating most of the wastewater treatment plants north of I-10 into two regional facilities divided by the Sun Valley Parkway, two major plants down towards the south, and then three regional facilities below I-10.

Russell Fletcher, City of Glendale, commented that the Subregional Operating Group Wastewater Treatment Plant was first constructed and then satellite plants were built. It is a similar idea to use the effluent where it can be gathered for that specific area's reuse instead of trying to pump all of the major effluent from the regional facility back up stream. He added that what the Town of Buckeye is doing seems to be a similar plan, but in reverse order of what others have done.

Mr. Frost commented on the flows to the plants being 116 gallons per capita per day (gpcd) and 122 gpcd which seems really high, especially with no industrial development in the area. He asked how the numbers were calculated. Mr. Kammerzell discussed planning numbers versus actual lot counts. He added that planning numbers were used and that the densities anticipated are from the Town of Buckeye Planning Guidelines for density per acre. The numbers will be refined as the process moves forward and the number of lots are determined. It is anticipated that the number will be reduced. Mr. Frost commented that the Town of Gilbert averages 65-70 gpcd.

Mr. Stack stated that the City of Avondale sees similar numbers to the Town of Gilbert, but Maricopa County, on the regulatory side, might require 100 gpcd. Mr. James responded that Maricopa County encourages the use of 100 gpcd or 350 gallons per day per dwelling unit. However, 350 gallons per day per dwelling unit includes industrial and commercial and Maricopa County does not expect the housing component to be a full 350 gallons per day per dwelling unit.

Mr. Stack inquired about the schedule for the Anthem at Sun Valley South Water Reclamation Facility. Mr. Kammerzell responded that they are still in line with the construction estimates and are moving forward with the process. He indicated that the time constraints are recognized and efforts are being made to stay on schedule.

Chair Klingler requested a motion to authorize that a public hearing be conducted on the Draft MAG 208 Water Quality Management Plan Amendment for the Town of Buckeye Anthem at Sun Valley South and Tartesso East Water Reclamation Facilities. Mr. Stack moved and Mike Salisbury, City of El Mirage, seconded, and it was unanimously passed through a roll call vote by the Committee.

Chair Klingler thanked the Committee for participating and called for adjournment of the meeting.